



County of Los Angeles CHIEF EXECUTIVE OFFICE

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LOS ANGELES, CALIFORNIA 90012
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<http://ceo.lacounty.gov>

WILLIAM T FUJIOKA
Chief Executive Officer

May 20, 2008

The Honorable Board of Supervisors
County of Los Angeles
383 Kenneth Hahn Hall of Administration
500 West Temple Street
Los Angeles, CA 90012

Dear Supervisors:

**DEPARTMENT OF PUBLIC WORKS: REQUEST FOR APPROVAL
TO PURCHASE A 12-TON TRUCK WITH BOOM
(ALL SUPERVISORIAL DISTRICTS)
(3 VOTES)**

SUBJECT

This action is to approve the purchase of a replacement 12-ton truck with boom, which is a budgeted Fiscal Year 2007-08 Fixed Asset.

IT IS RECOMMENDED THAT YOUR BOARD:

Approve the Department of Public Works to acquire one replacement 12-ton truck with boom at an estimated cost of \$250,000 budgeted in the Fiscal Year 2007-08 Internal Service Fund Fixed Asset Equipment appropriation.

PURPOSE/JUSTIFICATION OF RECOMMENDED ACTION

The purpose of the recommended action is to comply with the County Equipment Policy (Policy) that your Board adopted on October 16, 2001. This Policy requires your Board's approval prior to County departments purchasing equipment with a unit cost of \$250,000 or greater. Attached is a copy of the truck, boom, 12-ton specifications.

This purchase is a replacement for an existing 12-ton truck with boom (Vehicle No. 26-033) that is estimated to cost \$250,000. The replacement criterion for this equipment is 15 years or 6,000 hours of operation and this equipment is 21 years old

Board of Supervisors
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First District

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with 12,758 hours. The existing equipment is used in drilling projects to lift diamond core drilling equipment and performing repairs on the various dual wells along seawater barriers. The seawater barriers eliminate the contamination of salt water to fresh drinking water wells.

Implementation of Strategic Plan Goals

The Countywide Strategic Plan directs that we provide Service Excellence (Goal 1), Organizational Effectiveness (Goal 3), Fiscal Responsibility (Goal 4), and Community Services (Goal 6). The recommended action will enable the Department of Public Works (Public Works) to continue to provide County residents with enhanced, responsive, efficient, and cost-effective flood control maintenance.

FISCAL IMPACT/FINANCING

There will be no impact to the County General Fund. The cost for this acquisition is estimated to be \$250,000 and is included in the Fiscal Year 2007-08 Internal Service Fund Fixed Asset Equipment appropriation.

FACTS AND PROVISIONS/LEGAL REQUIREMENTS

On October 16, 2001, your Board adopted a Policy whereby departments will obtain Board approval to purchase equipment with a unit cost of \$250,000 or greater prior to submitting their requisitions to purchasing.

ENVIRONMENTAL DOCUMENTATION

In accordance with Section 15378(b)(4) of the California Environmental Quality Act (CEQA) Guidelines, approval of the recommended action does not constitute a project and, hence, is not subject to the requirements of CEQA.

IMPACT ON CURRENT SERVICES (OR PROJECTS)

The approval of this request will enable Public Works to continue to perform its routine flood maintenance activities in a more efficient and cost-effective manner. Your Board's approval will allow Public Works to replace outdated maintenance equipment and continue to provide flood maintenance services to County residents.

The Honorable Board of Supervisors
May 20, 2008
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CONCLUSION

Please return two adopted copies of this letter to the Department of Public Works,
Fleet Management Group.

Respectfully submitted,

A handwritten signature in black ink, appearing to read 'WTF', followed by a stylized flourish.

WILLIAM T FUJIOKA
Chief Executive Officer

WTF:DDE
PM:jd

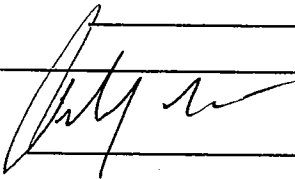
Attachment

c: County Counsel

LOS ANGELES COUNTY DEPARTMENT OF PUBLIC WORKS
FLEET MANAGEMENT GROUP
SPECIFICATIONS
SECTION A



FOR: **TRUCK, BOOM 12 TON**, to conform to the following specifications.

DEPARTMENT REQ. NO:	_____	SPECIFICATION NO:	_____
QUOTATION NO:	_____	BUDGET	144R 2007-2008 FS
MAKE:	_____	NO(S)	_____
VENDOR NAME:	_____	MODEL:	_____
ADDRESS:	_____	BID PREPARED BY:	_____
SPECIFICATION BY:	Frank V. Solano _____	PHONE:	_____
		APPROVED BY:	

IMPORTANT NOTE:

This specification **MUST BE REVIEWED** with your bid quotation. Failure to return a completed specification **MAY VOID** your bid.

The "BIDDER'S RESPONSE" page should be attached to the specification stating compliance with or proposed alternatives to specified details.

The page number, paragraph, and line should be referenced when deviating from the specification and must be included. **Exception:** Vendors are required to complete the right-hand column of this specification. If taking no exceptions to the stated specifications, indicate so by writing "As Specified" for each specification. If taking exception to a specification, indicate by listing the exception information based on your product offering".

IMPORTANT NOTE:

Bidders should note that specific warranty requirements are included in this specification.

This specification, when completed by the successful bidder and accepted by the County, becomes a part of the contract between the bidder and the COUNTY of LOS ANGELES.

LIQUIDATED DAMAGES:

Liquidated Damages: It is mutually understood and agreed that Vendor's failure to deliver on time [the equipment] will result in damages being sustained by County. It is also understood and agreed that the nature and amount of the damages will be extremely difficult and impractical to fix; that the liquidated damages set forth herein are the nearest and most exact measure of damages for such delay that can be fixed at this time; and that the liquidated damages are not intended as a penalty or forfeiture for Vendor's breach. Therefore, in the event that [the equipment] is delivered late, it is agreed that County may, in its sole discretion, assess against Vendor liquidated damages in the amount of cost equal to the daily rental rate of the equipment specified [] per monitoring report for each day until County has been provided with [the required equipment]. The liquidated sums specified represent a fair approximation of the damages incurred by the County resulting from the Vendor's failure to meet the delivery date for which an amount of liquidated damages is specified. The County's right to liquidated damages shall be in addition to an, not instead of all other remedies available to County, contractually, in law or in equity.

Should the successful bidder be obstructed or delayed in the work required to be done hereunder by changes in the work or by any default, act, or omission of the County or inability to obtain materials, equipment, or labor due to Federal government restrictions arising out of the defense or war program, then the time of completion shall be extended for such period as may be agreed upon by the County and the successful bidder.

Shall there be insufficient time to grant such extensions prior to completion date of the contract, the County may, at the time of acceptance of work waive liquidated damages which may accrued for failure to complete on time, due to any of the above, after hearing evidence as to the reasons for such delay and making a finding as to the cause of same.

In the event that the successful bidder is on strike at the time of the award of the bid, the County reserves the option to accept the first acceptable bid from a manufacturer that is not on strike.

COMPLIANCE WITH SPECIFICATIONS:

Compliance with the requirements of these specifications shall be evidenced by the manufacturer's data sheets published prior to issuance of these specifications, a copy of which shall be included with and made a part of the bidder's quotation.

Any exception to these specifications shall be specifically noted in the "BIDDER'S RESPONSE" column, adjacent to the appropriate item.

A bidder furnishing the equipment described in these specifications shall furnish evidence of similar equipment which has been in successful operation for a period of not less than two years in the continental United States. The unit, as specified, shall be of current year manufacture and shall be the manufacturer's standard advertised production model built in accordance with the top standards of the industry.

Modifying the unit or accessories to meet these specifications shall be construed as not offering the manufacturer's standard production model.

Acceptance of this equipment by the Department shall not waive the responsibility of the vendor to provide a unit that is in compliance with the specifications as bid. No part or parts defective in construction or deficient in any of the requirements of these specifications will be considered as accepted in consequence of the failure of any employee of the Department to point out said defects prior to the acceptance of the equipment by the Department.

It is deemed the responsibility of the bidder, as an expert in his field, to evaluate these specifications and bid a unit that is fully compatible with current industry standards.

Any subcontractor or supplier of attachments to this unit MUST be listed on the bid adjacent to the appropriate section.

REFERENCES:

References are listed to indicate the specific type, quality, function and/or durability of the item or items required. Bidders may offer superior or an approved equal product or item. The County will make the final determination on comparability of items offered. If the item or items offered is not comparable, the bidder shall provide the item specified or an approved equal at no additional cost.

AWARD CONSIDERATIONS:

The right is reserved to purchase equipment that, in Department's opinion, represents the best overall value. Consideration will be given to price, performance, operation, and maintenance cost, history of user satisfaction, and safety of operation.

The County requires delivery of this (these) units as soon as possible, but no later than 180 days from award of this bid. Delivery time will be considered in the bid award. Please enter the number of calendar days needed for delivery of the complete order:

_____ days.

EXCEPTIONS:

Bidder may take exceptions to any part of this specification providing that a full and complete explanation of such exception is included in the bid.

ALTERNATIVES:

Bids on equivalent equipment will be considered provided that a full description and specification for the alternatives are submitted.

COMPATIBILITY OF COMPONENTS:

Bidder to guarantee that various component groups, including but not limited to, engine transmission and drive line-differential, to be compatible and allow the equipment/vehicle to perform in a safe and satisfactory manner.

PARTS AND SERVICE:

Due to emergency status of the Los Angeles County Department of Public Works, bidders to guarantee to maintain an adequate stock of spare parts.

If the bidder does not have spare parts available in the Los Angeles County area, it must be stated in the response column with estimated parts delivery time.

The bidder shall guarantee that parts prices will be as low as such parts are sold to any other user.

Vendor to guarantee that parts availability for this unit for a period of at least seven (7) years from date of manufacture.

IF VENDOR DOES NOT HAVE SERVICE FACILITIES IN LOS ANGELES COUNTY, approved major component service companies in the Los Angeles area, must be designated in the response column.

PRE-DELIVERY INSPECTION REQUIREMENTS:

The specified equipment/vehicle will not be accepted for delivery unless a pre-delivery inspection has been completed and approved by Public Works. To schedule a pre-delivery inspection appointment, contact (the Contract Manager) of Fleet Management Group at Los Angeles County Department of Public Works at (626) 458-7336 or (562) 869-9312 between the hours of 7:30 a.m. to 3:30 p.m. Monday through Friday.

If the awarded vendor opts to request department representation that requires out of state travel, expenses other than meals and salary will be paid by the primary vendor. If out of state travel is requested, the awarded vendor must notify this office four (4) weeks in advance of the requested date. In addition to any other meetings, a final inspection will be conducted locally. At this meeting, Public Works division coordinator(s) will present a list of operators requiring training and the required criteria for user training will be established as well as a scheduled date for the training to be provided.

TRAINING & MANUALS REQUIRED:

- The awarded vendor will be required to provide up to eight (8) hours, as determined by Public Works, of training for the equipment. Training must be conducted by a qualified factory representative at a location that has been mutually agreed upon.
- The awarded vendor is responsible for providing Public Works a copy of the training materials in advance of the training session. Public Works will review the materials and provide the awarded vendor any required additions or changes to the material. The trainer shall send Public Works a completed sign in sheet for each training class that includes the printed names and signatures of all participants and trainees. These documents must be forwarded via certified mail to Fleet Management Group attn: Safety Coordinator, 900 S. Fremont Ave. , 7th floor, Alhambra, CA. 91802
- The awarded vendor shall provide a minimum of two (2) sets of operation AND _____ () of repair manuals, complete color coded wiring diagrams and complete hydraulic diagrams. These may be provided on Compact Discs that are suitable for use on Public Works' personal computers.

DEPARTMENT'S LOCKOUT/BLOCKOUT STANDARDS:

Capability for lockout must include an opening for a lock at the main disconnects switch and/or valves. The valves shall be lockable after being bled. If the equipment, as supplied by its original manufacturer, does not provide for this capability, it must be provided with the necessary hardware to meet these requirements without compromising any safety or operational features of the equipment or machinery. Additionally, any equipment or machinery offered shall include permanent labeling of all lockout points. Bidder shall describe, as part of the bid submittal, a functional lockout tagout standard operating procedure describing how equipment or machinery is to be locked out and where it can be tagged out. The lockout devices needed to adhere to the standard operating procedure must be provided with the equipment or machinery, and it should be included in the bid price. Vendor must comply with the above standards, otherwise prospective bidders will be disqualified from this solicitation.

BIDDER MUST INITIAL AND DATE : _____

INVOICES:

Vendor shall furnish the Department no-charge invoice for all work performed under warranty.

Each invoice shall itemize parts used and show all labor charges.

Invoices to be provided to the Department within seven (7) days of completion of repairs.

All invoices and billing to be mailed to: Los Angeles County Department of Public Works Fiscal Division, P.O. Box 7508 Alhambra, CA 91802-7508.

PAYMENT:

Payment will be withheld until the equipment /vehicle has been inspected and all terms of the specification have been completed.

The discount clock does not commence until the equipment has been accepted at our facility.

The Department will notify the vendor if any discrepancies are discovered or when the equipment meets specification and is accepted when possible.

LICENSE PLATES:

Vendor shall make all necessary applications and complete all transfer documents. The awarded vendor to procure the CALIFORNIA exempts license plates.

The registered owner shall be shown EXACTLY as out-lined below, on all documents where the registered owner is listed.

LA County Dept. Public Works
900 S Fremont Ave
Alhambra, CA 91802-1460

Vendor shall supply one (1) certified weight certificate for each unit delivered.

PERFORMANCE TEST:

A Performance test at the expense of the bidder may be required for the purpose of final evaluation after the bids are received, to determine that the operating requirements of the Department of Public Works are met.

The date, time, site, and conditions of such test shall be selected by the Los Angeles County Department of Public Works.

REVISITS:

VENDOR SHALL INCLUDE IN THE BID PRICE (if requested), the cost of a revisit to the equipment approximately thirty (30) days after it is placed in service. The revisit shall include the following:

Check all operating systems for proper operation and adjustment.

Check equipment visually for leaks and material defects.

Vendor shall notify the Department at least twenty-four (24) hours prior to the revisits.

SECTION A
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GENERAL:

The equipment covered by these specifications shall be new and complete with all standard equipment and accessories. Any item or accessory not mentioned in this specification, but required for operation of the unit, must be itemized and included in the bid. Any component identified as standard equipment must be furnished at no additional cost.

The equipment shall conform in all respects to the Division of Industrial Safety Orders Cal/OSHA and California South Coast Air Quality Management District (SCAQMD). Plus any other pertinent regulations. **Bidder is required to furnish proof of certification/compliance at time of receipt of chassis or equipment to the outfitter or dealership. NO EXCEPTION.**

This equipment shall meet or exceed noise emission limits applicable to Federal and Cal / OSHA requirements for operators on (8) hours operation without hearing protection.

All separate units shall be installed and connected for operation.

Bidder shall furnish complete information on the equipment to be furnished. Information must include published literature indicating all standard and optional features.

Only new, current production models will be considered.

INTENT:

To purchase a **TRUCK, BOOM 12 TON**; 35,000 Pound GVWR gasoline Powered Truck with a Hydraulic Crane; conforming to the following features and specifications.

BODY STYLE:

Conventional Cab Style body to consist of Aluminum cab with Huckbolt construction.

G.V.W.R. CHASSIS:

GVWR shall not be less than 35,000 pounds.

Wheel base shall not be less than 230-inches.

Cab to axle (CA) 156-inches.

Bogie Separation 51 inches.

Front Axle to Back of Cab: **86** inches.

Front Axle to Front Bumper: **25** inches

After Frame: 80 inches.

Frame Width Outside Rail to outside rail: 34.75" inches.

Height: 10.250 inches.

Section Modules: 30.0 Minimum.

Frame Dimensions:

RBM: 1,200.00 0 lb-in. Minimum.

Frame Material: Steel 120,000 psi.

Frame Fasteners: Hex Head fasteners if offered.

Front Frame Extensions: 24" +/- 3" required on all Cranes optioned with front bumper outriggers.

The frame shall be straight without a change in dimension from the front of the cab to the front bumper.

The outside of the frame rails on both sides of the chassis shall be free of all accessories except if specified, from 3-inches behind the cab to the front most edge of rear tires. Movement or modification of any accessories as well as holes left in the frame from their removal will not be acceptable.

ENGINE:

In accordance with So. Coast AQMD's Rule 1191, the Engine shall be certified by the California Air Resources Board as being _____

(<http://www.arb.ca.gov/msprog/ccbg/2007pc.htm>)

Maximum engine size: 8.1L

Horsepower not less than: 295

Torque not less than: 440

C8500/8.1L or Equal in-line severe duty gasoline engine.

Gross horsepower shall be 295 at 3600 RPM.

Torque shall be 440 ft/lbs at 3200 RPM.

Air Cleaner, two-stage dry type.

Oil filter, spine-on full flow, two (2) each minimum, primary and secondary.

Fuel tanks shall be mounted one on curb side under passenger side as step and one mounted on street side under driver, also as a step. Fuel tanks shall each have a capacity of 50 gallons each, totaling 100 gallons.

Fuel filter, spin-on full flow, replaceable. Auxiliary fuel/water separator with visible bowl and bleed-off petcock.

Starter, heavy duty.

Horizontal muffler with vertical passenger side exhaust to be exactly at least 2' taller than cab with rain cap.

System shall include a heat shield to protect with a rain cap passenger entry area.

Exhaust system shall be fully compatible with engines. Muffler as required for proper noise suppression.

COOLING SYSTEM:

Radiator shall be the heaviest duty available for off-road use. Cross flow design with a minimum of 777 square-inches. **A radiator stone protection guard shall be provided. NO EXCEPTIONS.**

All radiator, oil cooler, after-cooler, and heater hoses, shall be preformed silicone.

Coolant recovery system; coolant system filter, vendor to indicate make and model. Fan shall be 26-inches in diameter with eight (8) blades minimum with Fan clutch.

CLUTCH:

Shall be 15.5-inch diameter minimum, tow (2) plate with ceramic buttons.

Clutch shall be self-adjusting.

TRANSMISSION:

Shall be 5-speed manual transmission with a two speed rear axle; designed for continuous shifting from the lowest to the highest gears.

Transmissions shall have a magnetic drain plug.

Transmissions shall be equipped with a heavy duty transmission oil cooler.

POWER TAKE-OFF:

Heavy duty cast iron Chelsea Model 272 or equal.

Dash mounted electric shift with PTO on light.

POWER TAKE-OFF: (Cont.)

PTO shall be compatible with a direct mount and braced hydraulic pump. Air Actuated operating PTO switch.

PTO shall include an over-speed governor. A heat shield shall be provided, if required.

PTO/PUMP clearance: All available transmission ports must be clear of any obstructions preventing the installation of a PTO and pump. Space required to mount the PTO and Pump are approximately 8" x 12" x 28".

FRONT AXLE:

Capacity shall be not less than 14,000 pounds GAWR.

Wheel seals shall be wet type, Stemco or equal.

Shock absorbers two (2) each, shall be heaviest-duty, double-acting telescopic available.

REAR AXLE:

Capacity shall be not less than 21,000 pounds GAWR.

Axle shall be two speed, with inter-axle lockout and shall have magnetic drain plugs.

Differential shall be full floating hypoid or beveled Spiral gears.

Suspension shall be Hendrickson, RT400 or Department approved equal.

REAR AXLE: (Cont.)

Two speed rear axle shall be 4.78 to 1 or as required to maintain a maximum road speed of 70 MPH at truck's rated GVW . Vendor shall supply GCVWR of completed vehicle.

SPRINGS:

Front: shall not be less than 14,000 pounds ground rating each and have multi-leaves.

Rear: Shall not be less than 21,000 pounds ground rating each, 2-stage integral leaves.

DRIVE LINE:

Tubular shafts with needle-bearing universal joints in main drive transmission. Spicer 1810 series or equal.

Inter axle universal joints shall be Spicer 1710 series or equal.

STEERING:

Shall be manufacturer's heavy duty power steering.

BRAKES:

Heavy-duty, full air break system to meet current Department of Transportation 121 requirements.

Cam-type brakes shall be on all axes. Rockwell S-cam with Rockwell Q-type brake shoe hardware or equal.

Minimum brake lining size

Front: 16.5-inch by 5.0-inch minimum.

Rear: 16.5-inch by 7.0-inch minimum.

BRAKES: (Cont.)

All brake lining must be non-asbestos and have removable backing plates on all wheels.

Automatic slack adjusters shall be on all wheels, if available.

Rear axle shall be equipped with emergency and parking brakes, with isolated tank and double-diaphragm chambers.

There shall be a separate shutoff valves for "glad-hands". Glad-hands with covers and chains shall be installed and hooked up on rear cross-member of frame.

Glad-hands shall be clearly marked and located a minimum of 10-inches from hitch and above a line through the center of hitch. Glad-hand covers to be Wagner or Department approved equal.

Pull-trailer air brake hand control valve shall be mounted in cab. To include tractor protection valve.

Independent, belt-driven, 13.2 CFM, water cooled, engine-oil lubricated air compressor. Air supply from engine air cleaner.

Heated air dryer BWAD-9 or equal. **IT SHALL BE MOUNTED ON THE INSIDE OF THE FRAME. AIR DRYER SHALL NOT INTRUDE INTO THE TRUCK'S CA.**

BRAKES: (Cont.)

Air reserve tanks with a minimum capacity to operate trailer brakes, with (4) cylinders. All air tanks shall be equipped with remote, cable actuated drain valves. Berg 12105 or equal.

There shall be illuminated air pressure gauge on instrument panel.

WHEELS AND TIRES:

Wheels:

Steel ventilated disc "Budd" dual cap nut type, 10-hole.

Front: Wheels - Two (2) 22.5 by 13.0 DC
 Tires - Two (2) 425/65R 22.5 (20PR)

Goodyear Unisteel II or Department
approved equal.

Rear: Wheels - Four (4) 22.5 by 8.25 DC
 Tires - Four (4) 11R 22.5H (16PR)
 Tubeless radials; Goodyear Unisteel II or
 Department approved equal.

All tires shall be properly mounted and high-speed balanced.

ELECTRICAL:

Alternator, 12 volt, 100 amp minimum.
Charge rate shall be not less than 20 amps at 600 RPM.

Batteries, two (2), maintenance free, calcium type 12-volt, 93 amp hour minimum each. Cold cranking amps (CCA) 950 minimum, each. Batteries shall be mounted in a lockable metal box.

ELECTRICAL: (Cont.)

Directional lights front and rear with self-canceling type switch on steering column.

Backup lamps with automatic switch and alarm.

All rear and clearance lights shall be recessed or otherwise protected against damage.

Furnish all lights, wiring, reflectors, fenders, mud guards, and flaps required by the State of California Vehicle Code.

2 safety lights mounted on cab

All clearance lights shall be hermetically sealed and mounted in rubber 2-1/2-inch diameter, all shall be LED lighting. Three bar marker shall be hermetically sealed units, "Trucklite 10744" or equal. LDC warning lights, two (2), shall be mounted on each end of three bar marker recessed into the bed side rails.

Stop and tail lights shall be 4-inch diameter hermetically sealed units, mounted in rubber all LED.

Backup lights, 4-inch diameter hermetically sealed, mounted in rubber, all LED.

All wires to rear of truck shall be run in a 3/4-inch thin wall conduit. Maximum of 6-inch exposed wire at connection.

All wires used shall be of appropriate color.

Trailer light connection shall be Cole-Hersee, 7-way round pin connector; Model 12063 or equal, attached near trailer hitch and wired per ATA standard color code.

CAB:

Conventional closed galvanized steel cab with tinted safety glass throughout.

Cab shall have flat windshield with a maximum slope angle of 65 degrees.

Drip rails over doors.

Forward fiberglass tilthood and fenders.

Maximum BBC 98-inches.

Cab width 70-inches minimum.

Head room (seat to top of cab) shall be not less than 36-inches.

Instrument panel to include tachometer, air, oil, fuel, electrical, and temperature monitoring gauges. All gauges to be lighted and dimmer controlled.

Two (2) windshield wipers, electric. Wiper motor and leverage shall be serviceable from outside of cab.

Two (2) exterior rear view mirrors, one (1) on each side, 6-inches by 16-inches "Re-Trac" or equal, complete with "U" bracket and braced to eliminate excessive vibration.

Driver seat fully adjustable "Durafoam Fleet Cruiser" or equal with additional seating for two (2) passengers.

Armrests right and left.

Non-slip protection on steps.

All seats shall have seat belts.

Two (2) inside sun visors

One (1) direct reading hour meter, "Hobbs", shall be dash mounted in addition to the factory installed unit hour meter.

NO EXCEPTIONS

CAB: (Cont.)

Heater, defroster and air conditioning as recommended by truck manufacturer.

Dome light inside cab actuated by buttons in the doors and a manual dash mounted switch.

Grab handles for cab entry on both sides. Minimum 12-inch length.

Cigarette lighter and ashtray.

Glove compartment, dash or driver's side door mounted.

Dual electric horns.

Passenger side door shall have peeper window of minimum size available. An over the door convex mirror can be substituted if a peeper window is not available. Approximate size 8 1/4" x 5 3/4".

Wheel Chock Holders two (2) are to be installed at rear of vehicle on each side. The location of the mounting and size is to be determined at time of construction. Chock Blocks are to be supplied by Los Angeles County Department Of Public Works.

CRANE GENERAL:

BIDDERS ARE TO SUPPLY THE LATEST PRINTED LITERATURE AND DETAILED SPECIFICATIONS ON THE EQUIPMENT THEY PROPOSE TO FURNISH FOR A TWELVE TON CRANE. VENDOR SHALL FURNISH ALL INFORMATION TO COUNTY UPON REQUEST.

This crane is to be a hydraulically operated telescoping crane. It shall be capable of meeting SAE J765 stability requirements with an 85% tipping factor at maximum rated capacities, mounted on a single rear axle chassis.

CRANE GENERAL: (Cont.)

This crane shall be design, manufactured, and tested to comply to the applicable portions of ANSI B30.5, OSHA 1926.550, AWS D14.3 and SAE J-1078. The manufacturer shall maintain appropriate test result to verify compliance to these regulations.

This crane is to have a height of not more than 152 inches when mounted on a 40.4" chassis frame. It shall not exceed 96 inches in width while in transport position and shall not utilize more than 43-inches of mounting space when mounted rearward of cab.

Crane shall be painted manufacturer's standard white finish.

The main frame shall be box construction of material capable of supporting the turret and outriggers. This crane shall incorporate a torsion resisting sub-base, which clamps to the truck frame, and extends from the pedestal to the stabilizers. The bed shall be attached to the sub-base, using angle brackets (one welded to the sub-base and one welded to the deck cross member).

A water resistant NEM electrical box with color coded and numbered wires shall be mounted inside the pedestal. All crane relays and terminal strips shall be located within this box. Additional strips should be included for pre-wired add-on options.

CONTROLS:

In addition to controls for all crane functions, each Station if (two) are preferred shall have two stations consisting of foot operated throttle, engine shutdown, horn warning button, and engine start.

CONTROLS: (Cont.)

Controls levers shall be located approximately 40 to 50 inches above the platform floor. Each control handle shall contain an integral directional function decal in the control knob. The two (2) control stations, one right and one left of the turret, shall have easy step-up access from the ground.

Grab handles are to be on both sides conveniently located to assist the operator when entering and exiting the platform. Each station shall be constructed of non-skid, self-cleaning grip strut material and positioned for optimum operator comfort. A large back up safety screen shall be provided to protect the operator from outrigger motion. All levers and controls are to be located for the best comfort position for most operators. Each station shall be equipped with the following controls.

One lever for each of the two (2) outriggers, total of four levers, two each side.

One lever to rise and lower the boom, total of two levers, one each side.

One lever to extend and retract the boom, total of two levers, one on each side.

One lever to swing the boom left to right, total of two levers, one on each side.

One lever to operate the winch forward and reverse, total of two levers, one on each side.

One foot pedal to throttle the truck engine, total of two pedals, one on each side.

Push button audio single device, total of one device

Engine start-stop switch, total of two switches, one on each side.

CONTROLS: (Cont.)

Enclosed level bubble, total of two bubbles, one on each side.

All controls and levers shall be clearly marked and shall be in the same relative sequence and position regardless of whether the operator is working curb or street side.

CONTROL PLATFORM:

The expanded steel platform shall be provided with a grip strut step that allows for a comfortable step up on not more than 18 inches, when measured on level ground to the top of the step. A rear bulkhead, with a meshed window for operator view, shall be provided.

For the safety of the operator, the rear bulkhead shall be at least 65 inches in over all height or extended vertically to the point where the upper pivot point on the outrigger attached to the pedestal. For the additional operator safety when climbing onto the platform, the rear bulkhead and operators console shall contain a grab handle at least 12 inches in height and 3 inches in depth to facilitate grabbing by an operator's gloved hand.

MOMENT LIMITER:

The crane shall be equipped with an electronic moment limiter that audio warns and shuts-down crane when approaching or meeting overload conditions. The device shall include a display monitor visible from each operating station that indicates weight of cargo the crane is actually lifting.

OPTIONAL ITEM:

Remote control transmitter; the crane shall be equipped with a factory installed radio remote control. The transmitter shall allow the operator to perform all boom and winch functions with one hand. The transmitter shall provide a proportional trigger that governs crane operating speed to match all requirements.

HYDRAULIC SYSTEM:

The crane hydraulic pump shall be one (PTO Powered) high speed balance gear type triangle pump. The pump shall provide 17 GPM to the crane functions, 33 GPM to the winch and 8 GPM to the swing. The control valves shall be of the "direct acting/sliding spool type" with the operator control levers directly connected. Spools shall be of the low spool force type with metering notches. Valves shall be four way spring centered with independent relief valves set at no less than 2800 PSI on the winch system.

All pressure hydraulic hoses shall be of steel braid reinforced construction with 4:1 safety factor. SAE flange or O ring type hose fitting shall be used.

The hydraulic oil reservoir shall be provided with a sign and temperature gauge, breathable cap, clean out port, removable magnetic plug, and a 10 micron return line filter.

Filtration is to be provided from an extra large capacity filter with a gauge that reads return line back pressure to indicate when the filter cartridge needs replacement.

HYDRAULIC SYSTEM: (Cont.)

The reservoir capacity shall not be less than 70 U.S. gallons to reduce overheating, unless a hydraulic oil cooler is supplied. Gate valves on the suction line are to be provided and mounted behind the reservoir and wired open to keep the pump from cavatating.

BOOM:

The boom shall be a five side design. There shall be three sections and when retracted shall not be greater that 24.4 FT. when measured from the heel pin to the sheave pin center-line in the boom nose (head). The boom sections shall contain a design that maximizes section overlap between the base and mid and the mid and the fly.

This overlap shall exceed 30 in. Base to mid, and 30 in. Mid to fly to maximize boom strength and minimize increase in radius due to loaded boom angles. The teat of the section shall contain an access port to allow for quick inspection and replacement of internal rear wear pads on the mid and fly sections.

The base, mid and fly boom side plates shall contain access holes for ease of lubricating internal extension and retraction sheaves.

The boom base section shall have a keel bottom plate to allow for maximum use of the bed in the vertical dimension.

This dimension shall exceed 65". When measured from the flat surface of the bed to the bottom plate of the base boom. The boom shall have a vertical reach. **NO**

EXCEPTIONS.

BOOM: (Cont.)

The boom shall be equipped with an adjustable electronic high/low control stations that warns the visible from both control stations that warn the operator with both audible and visual warning when pre-set boom angles are approached.

BOOM NOSE:

The boom nose shall contain one main sheave. To prevent excessive wear to the wire rope metallic sheave wheels in the nose are unacceptable. All cable retainer pins shall be plated to eliminate rust.

A two part block and aux block shall be including for 3 part revving.

The boom shall also contain a carrying hook, welded to the side plate of the boom nose. This hook will allow the operator to relieve tension from the anti-two block switch for road travel by placing the chain on the anti-two block weight over the hook.

MAIN HOIST:

The hoist 2 speed shall be strong enough to develop a bare drum line pull of 11,400lbs. In most cases, the unit will be working off the hoists third layer. The third layer shall produce a line pull that is equal to or greater than 8,400 lbs.

The hoist shall contain at least 235 ft. of 9/16 in. 6x25 IWRC EIPS wire rope. The ropes breaking strength shall be equal to 33,600lbs or greater, so when a 3.5 to 1 safety factor is added, the single permissible line pull shall be equal to or greater than 11,200lbs.

To maximize crane and operator efficiency, the following speeds and pulls shall be obtainable.

MAIN HOIST: (Cont.)

Vendor shall indicate the pulls for the following at low and high speeds.

<u>Layer</u>	<u>low Spd</u>	<u>Hoist Pull</u>	<u>High Spd</u>	<u>Line Pull</u>
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First

Second

Third

The wire rope shall be revved for 2 part line usage at time of delivery. A down haul weight with swivel hook that includes sheave(s) to allow for 3 part revving of the wire rope shall be included.

ROTATION:

The boom shall be capable of being rotated a minimum of 360 in not more than 45 seconds. The rotation system shall consist of a planetary gear box with spring-applied multiple disc hydraulically released brakes.

The turret and main frame mounting surface for the rotational bearing shall be mounted after welding.

Rotation bearing is to be attached to the turret and main frame by use of high strength grade 8-bolts. A full circle bolt pattern between the main frame, rotation bearing and turret shall be used for equal load distribution.

The rotational system shall be capable of rotating holding, and restarting capacity loads up to five degree slop. Rotation shall be 375 degrees non continuous. Bolts between main frame and rotation bearing shall be lock tabbed.

OUTRIGGERS:

The crane shall be equipped with A-Frame outriggers located on each side of the crane's main frame. They are to be made of boxed-type construction and have a minimum extended span of 20'4" ft. when measured from the center of the pads at ground level for increased stability without counterweights. The pads shall be flared on the leading edge. The outriggers shall have the capacity of providing a minimum of 1.5' of ground penetration so it will not bind when raising or lowering and be of a sufficient design to lift a fully loaded chassis.

The outriggers shall operate independently of each other and require only one cylinder per outrigger for extension/retraction. The extension, retraction cylinder shall contain a four way holding valve (pilot operated) integral with the cylinder barrel. Remote mounted holding valves are unacceptable. Outrigger audio-visual motion alarm shall be provided.

STABILIZERS:

The crane shall be equipped with rear A-Frame stabilizers.

They shall have a minimum span of 10'. They shall have the capability to be independently controlled from the operator's platform using completely independent control levers. Both stabilizer audio-visual motion alarm shall be provided.

FRONT CENTER STABILIZER:

The crane shall be equipped with a hydraulic front center stabilizer to allow a 360 degrees area of operation. Controls for this stabilizer shall be located at the crane operator's station.

This stabilizer shall be the tilting type for use with tilting cab. Stabilizer audio-visual motion alarm shall be provided.

LOAD CHARTS:

The chart shall contain a rating of 24,000lbs. at 4 ft load radius. *There shall be no load radius or capacities between the nominal rating and the next published load radius of 8ft, as any practical lift will be from the 8ft radius and out.* If the load chart contains both structural and stability lifts, a hold line shall be an integral part of the load chart to show which lifts are based on structural vs. stability lifts. All load lifts except the nominal lift shall be accomplished using a maximum of 2 part line.

The vendor shall indicate the following capacities for a 12 ton capacity crane. Vendor shall fill in capacities at listed boom lengths.

<u>Load Radius</u>	<u>Capacity</u>	<u>Boom Length</u>
5ft		25'
8ft		25'
10 ft.		25'
15 ft.		25'
20 ft		25'
25 ft.		30'
30 ft.		30'
34 ft.		44'
38 ft		44'
42 ft.		53'
46 ft.		53'
50 ft.		57'
64 ft.		57'

The boom length shall be able to fully telescope the required load capacities.

BOOM STOWAGE:

The boom shall have the capability to be stowed over the rear for travel.

Note: All pin that attach one component to another shall be plated to reduce rust.

OVERLOAD ALERT SYSTEM:

There shall be an audio-visual capacity alert warning system included to advise the operator of approaching overload conditions.

AUXILIARY UNDER BOOM HOIST: (Tag line winch):

Capacity: 5,000 lbs equaling 2.5 Tons.

A GPE H138UH winch or approved equal shall be installed on the bottom of the boom base section for tag line use. It shall have an automatic brake on the worm. Tag line shall be capable of being secured to primary base of boom.

The control for the auxiliary winch shall be located at the crane operator station, clearly marked as to direction of operation and distinctly marked so as to avoid confusion with the control lever for the load line hoist.

There shall be an ancillary cable sheave for the tag line located near main boom sheave head assembly.

FLAT BED:

Dimensions:

Length (inside): 216" inches minimum= 18.0 feet
Width (inside): 94" inches minimum= 7'-10"
Height of sides with hinges: 24 inches minimum=2'
Height of tailgate: 24 inches minimum= 2'
Height of rear post hinges: 24 inches minimum=2'
Height of stake sides: 24 minimum=2'

Width of stake sides shall be no larger the 54" length per stake. (Exact length will be determined at the time of pre-build meeting).

FLAT BED: (Cont.)

Height of Front Bulkhead: Height to be determined at time of construction. Size: 96-inches= 8' by 240-inches = 20' Bed.

Sills: 10 gallon C-informed H.R.S. with stake pockets side and rear. Pockets shall be flemming type.

B-Bars:

4-inches by 5.4# structural channel set on 16-inch center line.

Floor:

7/8-inch apitong, not more than one splice per board, splices shall be staggered. Two (2) screws per board at each cross member.

Top Floor:

3/16-inch diamond plate steel fillet welded at all seams and completely welded at the attachment with the sills.

Header:

24-inches by 96-inches all steel header. Header face 3/16-inch diamond plate, edge of header banded with 1/4-inch by 1-inch flat stock. Adequate bracing shall be provided either by gusseting or attaching to sub-frame.

Tie Down Rings:

10 required Two (2) rows of five (5) parallel to rails set in 12-inches. Rings shall start 24-inches in from front and rear body sill, with balance evenly spaced between. Rings to be D-Shaped of 5/8-inch diameter bar stock with a 3-inch inside clearance. In up position, will be flush or below floor line. Ring shall be structurally supported by body frame. Floor cut for ring to have steel insert cover edge of flooring.

ACCESSORIES AND EQUIPMENT: (Cont.)

One (1) 5-pound metal body fire extinguisher, rechargeable dry powder type, class 10 BC, securely mounted in cab.

One (1) set (3 each) bi-directional emergency warning reflective triangles with metal case and bracket.

Label Master Model EW-3 or equal.

Two (2) lockable tool box, frame mounted 18-inches deep by 20-inches high by 96-inches long mounted on curbside. Flemming TB-96 lockable or equal. Exact location and dimensions shall be determined at time of pre-build meeting

Intermittent windshield wipers.

Gauge package-including:

Coolant,

Trip odometer,

Fuel,

Speedometer,

Hobbs Hour Meter **NO EXCEPTION**

Warnings lamps to include low coolant, low fuel,

Door ajar, headlights on reminder.

Halogen head lamps.

Daytime running lights

Backup Camera and Monitor shall be installed; vendor shall indicate make and model to be furnished at time of bidding.

PAINT:

All parts of this equipment shall be thoroughly cleaned of all weld splatter, slag and other foreign substances prior to prime coat.

Truck to be painted manufacturer's pure white.

Chassis and wheels to be painted black.

SAFETY FEATURES REQUIRED:

The doors, headliner, rear panel, must be fully padded and sound insulated.

Driver & passenger air bags. **No exceptions.**

Adjustable Seat Belt Anchors

WARRANTY, MANUALS, CERTIFICATES:

The crane shall include one year warranty protection on the entire crane. A copy of the warranty shall be included with the bid.

At time of delivery, the crane shall include one complete set of operators, service and maintenance manual, and two (2) CAL-OSHA Certificates (1 file copy and 1 vehicle copy).

WARRANTY:

The warranty period, terms and conditions, for this unit, and all provided accessories and attachments, shall be equal to the manufacturers standard warranty, or one (1) full year from the date the unit enters service with the County of Los Angeles. (whichever is longer).

WARRANTY: (Cont.)

Coverage shall include warranty against defects in materials or workmanship including all necessary parts, labor and transportation during the term of the warranty. This shall include vendor's travel time to, and from, the site of warranty work, shipping and transportation of all parts and labor required to honor the warranty.

The unit(s) described in these specifications may be used by the Department in all weather conditions under possible 24- hour a day operation. This service is acknowledged to be severe and to impose extreme demands upon this unit and its components.

The supplier of any equipment pursuant to these specifications shall therefore be advised of the possibility of severe work conditions in this service.

Warranties may exclude failure caused by physical abuse, or lack of proper maintenance and physical damage from external sources.

The unit is to be delivered with warranty documentation for the complete unit including all components installed.

The County of Los Angeles will operate and maintain said equipment in accordance with the manufacturer's standard service manual, provided with the unit at time of delivery.

Service directives and updates to the contents of the manuals, must be provided at no cost during the warranty period.

MANUFACTURER'S WARRANTY:

The truck's warranty shall be unconditional three (3) years 36,000 miles parts and labor from the date the vehicle is placed in service. All other components shall be unconditional one (1) year, unlimited miles or manufacturers standard warranty (whichever is longer) from the date the equipment is placed in service. Warranty may exclude filters, normal replacement items, and physical damage from external sources.

ENGINE EMISSION WARRANTY:

The engine and its emission controls, shall meet all California requirements for five (5) years or 100,000 miles from the date the vehicle is placed in service. This shall include all parts and labor.

FRONT AXLE, TRANSMISSION, DRIVE LINES AND REAR AXLES:

Shall be warranted for three (3) years or 36,000 miles of operation for defects due to defective workmanship or materials. This warranty shall include all parts and labor needed to repair any component listed in the warranty.

EXTENDED WARRANTY QUOTE:

If extended warranties are available from the vehicle's **manufacturer**, please quote available extended warranty options here: Any additional cost for an extended warranty will NOT be considered in determining the lowest responsible bid.

Delivery:

Deliver the vehicle to:

Andy Navarro

Los Angeles County Department of Public Works

Equipment inspection office

Telephone: (562) 869-9312

SPECIFICATIONS PREPARED BY:

Frank V. Solano

Power Equipment Specification Writer

Los Angeles County Department of Public Works

900 So. Fremont Avenue.

Alhambra, Ca 91802

Telephone: (626) 458-7307

NOTES:

NOTES:

PEDIGREE:

AWARDED VENDOR TO SUPPLY A LIST OF CAPACITIES INCLUDING FUEL, LUBRICANTS, COOLANT. IN ADDITION TO KEY CODES, FILTER NUMBERS, TIRE SIZES

